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NEWS RELEASE - For Immediate Release

NORTHERN SUPERIOR INITIATES AIRBORNE MAGNETIC GRADIOMETER SURVEY, TI-PA-HAA-KAA-NING PROJECT, NORTHWESTERN ONTARIO

Sudbury, Ontario (September 15th, 2009): **Northern Superior Resources Inc.** ("Northern Superior" or the "Company"), is pleased to announce the initiation of a low level airborne magnetic gradiometer survey over the Ti-pa-haa-kaa-ning gold property, Northwestern Ontario. This high resolution survey is focused over the head of the 6 km wide by 15 km long gold grain-in-till dispersal apron defined within the Big Dam area of the property (see press release January 26th, 2009). This area represents a source with a 6 km long potential fertile strike length. Diamond drill holes completed in the Fall of 2008 intersected a number of gold-bearing zones hosted in a sheared magnetite-bearing intermediate to felsic intrusive rock. The purpose of this airborne survey is to define the location and orientation of gold-bearing ductile shear zones thought to host gold mineralization responsible for the gold-bearing till apron. This is a necessary step in selecting drill targets for 2010 as the area is essentially covered in overburden.

Dr. T.F. Morris, President and CEO commented: *"This survey is a very important step in indentifying the gold mineralization source responsible for the unique and anomalously large gold grain-in-till dispersal apron. From previous exploration completed by the Company on the property, we understand that the gold mineralization is associated with gold-bearing ductile shear zones, intersected during the Company's 2008 fall drill program. The intent of the airborne magnetic survey is to identify the location of these shear zones with the purpose of defining drill targets. Drilling is planned to occur during the first two quarters of 2010 to take advantage of the local winter road to reduce drilling costs."*

The gold-bearing ductile shear zones encountered during the 2008 fall drill program are associated with the northwestern edge of the gold-grain-in-till apron where a gold showing was discovered during the 2008 summer field exploration program (see press release January 6th, 2009). The showing consisted of several separate quartz-veins hosted by granodiorite that returned 3.34 g/t Au and 8.9 g/t Au, both over 0.34 metres.

Very positive indicators that a large-scale gold mineralizing event has occurred in the Big Dam project area are taken from the presence of the gold showing, the identification of the multiple sheared intervals hosting anomalous gold and the presence of the anomalously large gold grain-in-till dispersal apron, all closely associated with the major Stull-Wunnumin fault.

The Ti-pa-haa-kaa-ning property is a large land position in Northwestern Ontario covering a total of 42,719 hectares and is being operated in a 50/50 Joint Venture with Lake Shore Gold Corp. Northern Superior acts as project operator. During the fourth quarter of 2007, Northern Superior announced the

discovery of a highly prospective gold grain-in-till dispersal apron, which averaged 10.02 gold grains per kilogram of overburden, with an estimated fertile strike length of at least six km. Staking of additional claims in June 2008 led to the subdivision of this extensive property into three smaller parts to better reflect the different geological models being applied to gold exploration: a) the western New Growth area; b) the central Big Dam area; and c) the eastern Ti-pa-haa-kaa-ning area.

Quality Control

The Company's Qualified Person ("QP") for the property is Thomas Hart, P.Geo. As QP, who has prepared or supervised the preparation of the scientific or technical information for the property and has verified the data disclosed in this press release.

About Northern Superior

Northern Superior Resources Inc. is a junior exploration company focussed on exploring for gold in the Superior Province of the Canadian Shield. The Company is a reporting issuer in British Columbia, Alberta, Ontario and Quebec, and trades on the TSX Venture Exchange under the symbol SUP.

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This news release includes certain "forward-looking statements". All statements other than statements of historical fact included in this release, including, without limitation, statements regarding potential mineralization, exploration results and future plans and objectives of Northern Superior are forward-looking statements that involve various risks and uncertainties. There can be no assurance that such statements will prove to be accurate and actual results and future events could differ materially from those anticipated in such statements. Important factors that could cause actual results to differ materially from Northern Superior's expectations are exploration risks detailed herein and from time to time in the filings made by Northern Superior with securities regulators.

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